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- 2** SCED: a generalized scheduling policy for guaranteeing quality-of-service 100%

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- 4** A hierarchical fair service curve algorithm for link-sharing, real-time and priority services 100%

Ion Stoica , Hui Zhang , T. S. Eugene Ng  
**ACM SIGCOMM Computer Communication Review , Proceedings of the ACM SIGCOMM '97 conference on Applications, technologies, architectures, and protocols for computer communication** October 1997  
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In this paper, we study hierarchical resource management models and algorithms

that support both link-sharing and guaranteed real-time services with decoupled delay (priority) and bandwidth allocation. We extend the service curve based QoS model, which defines both delay and bandwidth requirements of a class, to include fairness, which is important for the integration of real-time and hierarchical link-sharing services. The resulting *Fair Service Curve link-sharing* model formalizes the go ...

- 5 Optimal smoothing for guaranteed service** 96%
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- 9 Efficient support of delay and rate guarantees in an internet** 91%
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- In this paper, we investigate some issues related to the efficient provision of end-to-end delay guarantees in the context of the Guaranteed (G) Services framework [16]. First, we consider the impact of reshaping traffic within the network on the end-to-end delay, the end-to-end jitter, as well as per-hop buffer requirements. This leads us to examine a class of traffic disciplines that use reshaping at each hop, namely rate-controlled disciplines. In this case, it is known that it is advantageou ...
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Dan Decasper , Zubin Dittia , Guru Parulkar , Bernhard Plattner  
**ACM SIGCOMM Computer Communication Review , Proceedings of the ACM SIGCOMM '98 conference on Applications, technologies, architectures, and protocols for computer communication** October 1998

Volume 28 Issue 4

Present day routers typically employ monolithic operating systems which are not easily upgradable and extensible. With the rapid rate of protocol development it is becoming increasingly important to dynamically upgrade router software in an incremental fashion. We have designed and implemented a high performance, modular, extended integrated services router software architecture in the NetBSD operating system kernel. This architecture allows code modules, called *plugins*, to be dynamically ...

- 12 Router plugins: a software architecture for next-generation routers** 84%



Dan Decasper , Zubin Dittia , Guru Parulkar , Bernhard Plattner  
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- 13 Hierarchical packet fair queueing algorithms** 84%



Jon C. R. Bennett , Hui Zhang  
**IEEE/ACM Transactions on Networking (TON)** October 1997

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- 14 Achieving utility arbitrarily close to the optimal with limited energy** 82%



Gang Qu , Miodrag Potkonjak  
**Proceedings of the 2000 international symposium on Low power electronics and design** August 2000

Energy is one of the limited resources for modern systems, especially the battery-operated devices and personal digital assistants. The backlog in new technologies for more powerful battery is changing the traditional system design philosophies. For example, due to the limitation on battery life, it is more realistic to design for the optimal benefit from limited resource rather than design to meet all the applications' requirement. We consider the following problem: a system achieves a cer ...

- 15 A wireless fair scheduling algorithm for error-prone wireless channels** 80%



P. Lin , B. Bensaou , Q. L. Ding , K. C. Chua  
**Proceedings of the 3rd ACM international workshop on Wireless mobile multimedia** August 2000

In order to sustain relatively differentiated QoS over time-varying shared wireless medium with location-dependent errors, we propose in this paper a wireless fair scheduling algorithm which tries to both provide short-term fairness in the rate proportional guarantee sense and maintain a reasonable system throughput. Different implementation issues are discussed and performance is compared to alternative approaches found in the literature in which short term fairness is sacrificed for syste ...

- 16 A unified architecture for the design and evaluation of wireless fair** 80%



queueing algorithms

Thyagarajan Nandagopal , Songwu Lu , Vaduvur Bharghavan  
**Proceedings of the 5th annual ACM/IEEE international conference on Mobile computing and networking** August 1999

- 17** Fair scheduling in wireless packet networks 80%  
 Songwu Lu , Vaduvur Bharghavan , R. Srikant  
**IEEE/ACM Transactions on Networking (TON)** August 1999  
Volume 7 Issue 4
- 18** An integrated congestion management architecture for Internet hosts 80%  
 Hari Balakrishnan , Hariharan S. Rahul , Srinivasan Seshan  
**ACM SIGCOMM Computer Communication Review , Proceedings of the conference on Applications, technologies, architectures, and protocols for computer communication** August 1999  
Volume 29 Issue 4  
This paper presents a novel framework for managing network congestion from an end-to-end perspective. Our work is motivated by trends in traffic patterns that threaten the long-term stability of the Internet. These trends include the use of multiple independent concurrent flows by Web applications and the increasing use of transport protocols and applications that do not adapt to congestion. We present an end-system architecture centered around a Congestion Manager (CM) that ensures proper conge ...
- 19** A model, analysis, and protocol framework for soft state-based communication 80%  
 Suchitra Raman , Steven McCanne  
**ACM SIGCOMM Computer Communication Review , Proceedings of the conference on Applications, technologies, architectures, and protocols for computer communication** August 1999  
Volume 29 Issue 4  
"Soft state" is an often cited yet vague concept in network protocol design in which two or more network entities intercommunicate in a loosely coupled, often anonymous fashion. Researchers often define this concept operationally (if at all) rather than analytically: a source of *soft state* transmits periodic "refresh messages" over a (lossy) communication channel to one or more receivers that maintain a copy of that state, which in turn "expires" if the periodic updates cease. Though a nu ...
- 20** Hierarchical packet fair queueing algorithms 80%  
 Jon C. R. Bennett , Hui Zhang  
**ACM SIGCOMM Computer Communication Review , Conference proceedings on Applications, technologies, architectures, and protocols for computer communications** August 1996  
Volume 26 Issue 4  
Hierarchical Packet Fair Queueing (H-PFQ) algorithms have the potential to simultaneously support guaranteed real-time service, rate-adaptive best-effort, and controlled link-sharing service. In this paper, we design practical H-PFQ algorithms by using one-level Packet Fair Queueing (PFQ) servers as basic building blocks, and develop techniques to analyze delay and fairness properties of the resulted H-PFQ servers. We demonstrate that, in order to provide tight delay bounds in a H-PFQ server, it ...

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